

MAP LEGEND

Buffer Area

Property Line (100ft Buffer)

North Symbol

Surface Water

Field Boundary

rck Rock Outcrop (25ft Buffer)

Severe Slope/Erosion

O Sink Hole (100ft Buffer)

Intermittent Stream (100ft Buffer)

Occupied Dwelling/Structures/Well (200ft Buffer)

Frequently Flooded Area/Drainage Way/Wet Spot

Public Roadway (10ft Buffer)

Road Map Hauling Route

OSR/Public Access Sites (400ft Buffer)

Public Water Supply/Additional Water Well (100ft Buffer)

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-VI:	LAND	APPLICATION	AGREEMENT.	BIOSOI INS	AND INDUSTRIAL	DECIDITALO
	Company of the Company	1-11 1 1-10-1-1 1 1-1-1-1 1 1-1-1 1 1 1-1-1 1 1 1	A-6-20 R -6 Per Per 140 R Per 1 A 1 A 1	* USEL ACRE DE EL 12%	ALCOHOL BURNES BY CO. I DOT FOR I	M

the Landowner in the event	minated in writing by eith of a sale of one or more p in this agreement change	_, referred to here as the "Pe er party or, with respect to the ercels, until ownership of all s, those parcels for which ow	nose parcels that are retained by parcels changes. If ownership of mership has changed will no
Landowner: The Landowner is the owner the agricultural, silvicultural o attached as Exhibit A.	of record of the real propor reclamation sites identi	perty located in <u>Sunker</u>	AND, Virginia, which includes entified on the tax map(s)
Table 1.: Parcels auth	orized to receive biosolid	s, water treatment residuals	or other industrial sludges
Tax Parcel ID 18-A-3 13-A-14	Tax Parcel ID	Tax Parcei ID	Tax Parcel ID
☐ Additional parcels containing Land	Application Sites are identified	on Supplement A (check if applicab	le)
Check one:	Landowner is the sole ov	vner of the properties identifitiple owners of the propertie	ed herein.
1. Notify the purchaser later than the date of 2. Notify the Permittee The Landowner has no other notify the Permittee immedia for application or any part of	t date of biosolids applica or transferee of the appli f the property transfer; an of the sale within two wer agreements for land app tely if conditions change	ation, the Landowner shall: cable public access and crop d eks following property transfe dication on the fields identifie such that the fields are no lo invalid or the information he	o management restrictions no er. ed herein. The Landowner will nger available to the Permittee rein contained becomes
	oove and in Exhibit A. The ified above, before, during	nittee to land apply residuals e Landowner also grants pe g or after land application of	
Class B biosolids Water	The real formation of the second of the seco	Food processing waste ☐ Yes ☐ No	Other industrial sludges
Johnny R. Landowner - Printed Name, Title	ASAL GR. Signature		394 ASAL Rd FARMVIlle V
Permittee:			434-547-7358
Nate - Blent INc. the	Permit Regulation and in am	nounts not to exceed the rates in	als on the Landowner's land in the dentified in the nutrient management -104.2 of the Code of Virginia.
The Permittee agrees to notify t specifically prior to any particular	he Landowner or the Landowner application to the Landown	wner's designee of the propose ner's land. Notice shall include	d schedule for land application and the source of residuals to be applied.
☐ I reviewed the document(s) a document(s) available to DEQ f	ssigning signatory authority or review upon request. (Do	to the person signing for landor not check this box if the landowner	wner above. I will make a copy of this signs this agreement)
Johny 18 A	SAL, St. M.	In Ald &	324 ASAL Ad
Permittee – Authorized Represent A. WAYN — Printed Name Rev 9/14/2012	ative Signature Oc. Way	me Walter	Mailing Address / / Page 1 of 2
	. ~	*	P.O. BOX 38060 2353 ChANES CITYORG

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Nutri-Blend, INC	_ County or City: <u>Cunterland</u>
Landowner: Johnny R. ASAL	- and that there are an experience and it is the second of
with the contract that it was to be a contract of the	and the state of t

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

 Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.

2. Public Access

- Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
- b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
- c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.

3. Crop Restrictions:

- Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
- b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
- c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
- d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
- Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).

4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

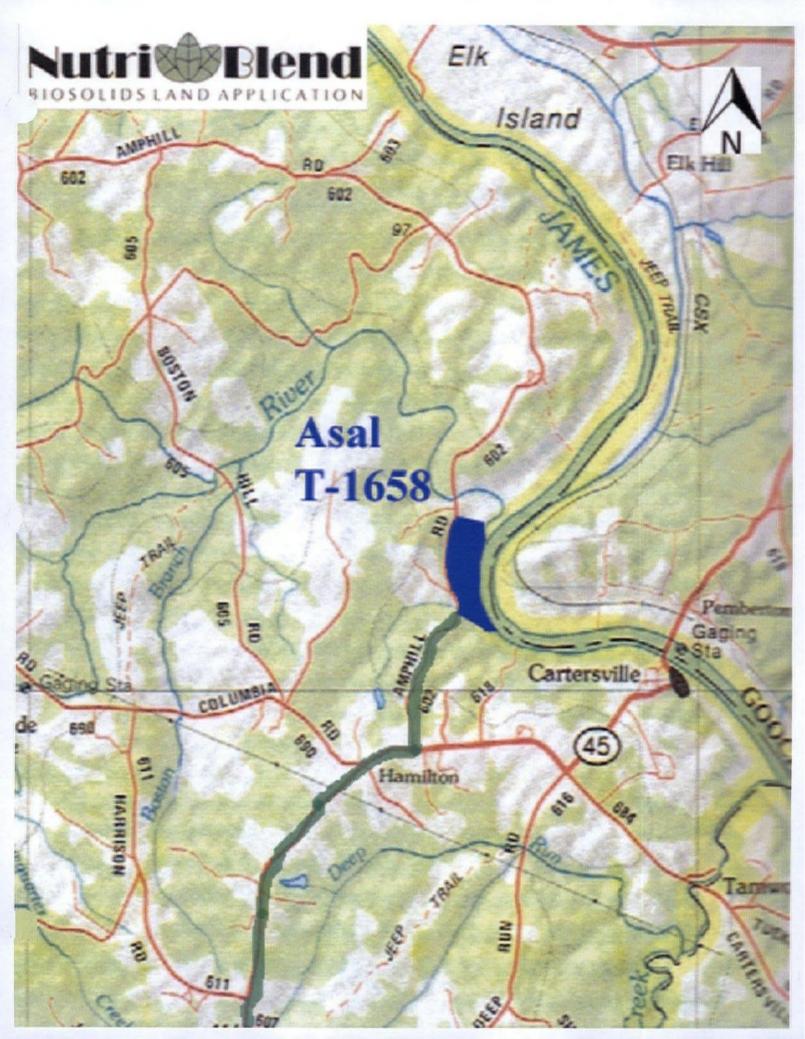
- a. Meat producing livestock shall not be grazed for 30 days,
- b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
- c. Other animals shall be restricted from grazing for 30 days;
- Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial
 residuals applications such that the total crop needs for nutrients are not exceeded as identified in the
 nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of
 Virginia;
- Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land
 for three years following the application of biosolids or industrial residuals which bear cadmium equal to or
 exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Landowner's Signature

Rev 9/14/2012

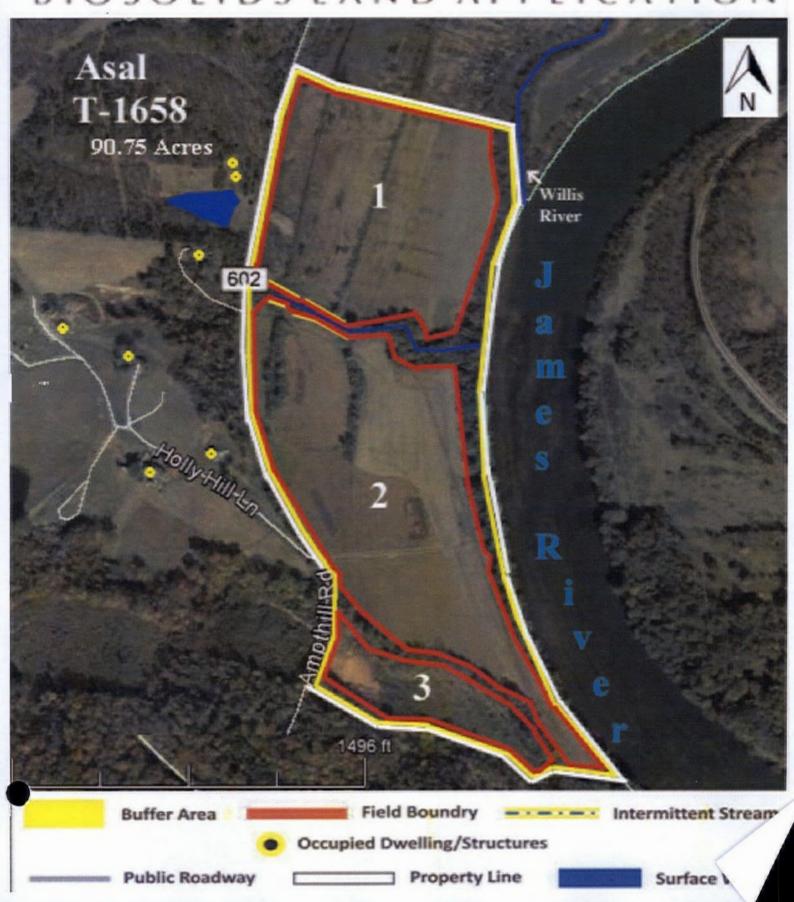
Date

Page 2 of 2



Nutri Blend

BIOSOLIDS LAND APPLICATION





MAP LEGEND MAP INFORMATION Not rated or not available The soil surveys that comprise your AOI were mapped at 1:24,000. Area of Interest (AOI) Area of Interest (AOI) Warning: Soil Map may not be valid at this scale. Soils Streams and Canals Enlargement of maps beyond the scale of mapping can cause **Soil Rating Polygons** misunderstanding of the detail of mapping and accuracy of soil line 0 - 25 placement. The maps do not show the small areas of contrasting 25 - 50 soils that could have been shown at a more detailed scale. Interstate Highways 50 - 100 US Routes Please rely on the bar scale on each map sheet for map 100 - 150 Major Roads Source of Map: Natural Resources Conservation Service 150 - 200 Local Roads Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov > 200 Background Coordinate System: Web Mercator (EPSG:3857) Not rated or not available Aerial Photography 863 Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts Soil Rating Lines distance and area. A projection that preserves area, such as the 0-25 Albers equal-area conic projection, should be used if more accurate 25 - 50 calculations of distance or area are required. 50 - 100 This product is generated from the USDA-NRCS certified data as of the version date(s) listed below. 100 - 150 Soil Survey Area: Cumberland County, Virginia 150 - 200 Survey Area Data: Version 11, Dec 11, 2013 > 200 Soil map units are labeled (as space allows) for map scales 1:50,000 Not rated or not available Soil Rating Points Date(s) aerial images were photographed: May 10, 2010-Jul 4, 0 - 25 25 - 50 The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background 50 - 100 imagery displayed on these maps. As a result, some minor shifting 100 - 150 of map unit boundaries may be evident. 150 - 200 > 200

Depth to Any Soil Restrictive Layer

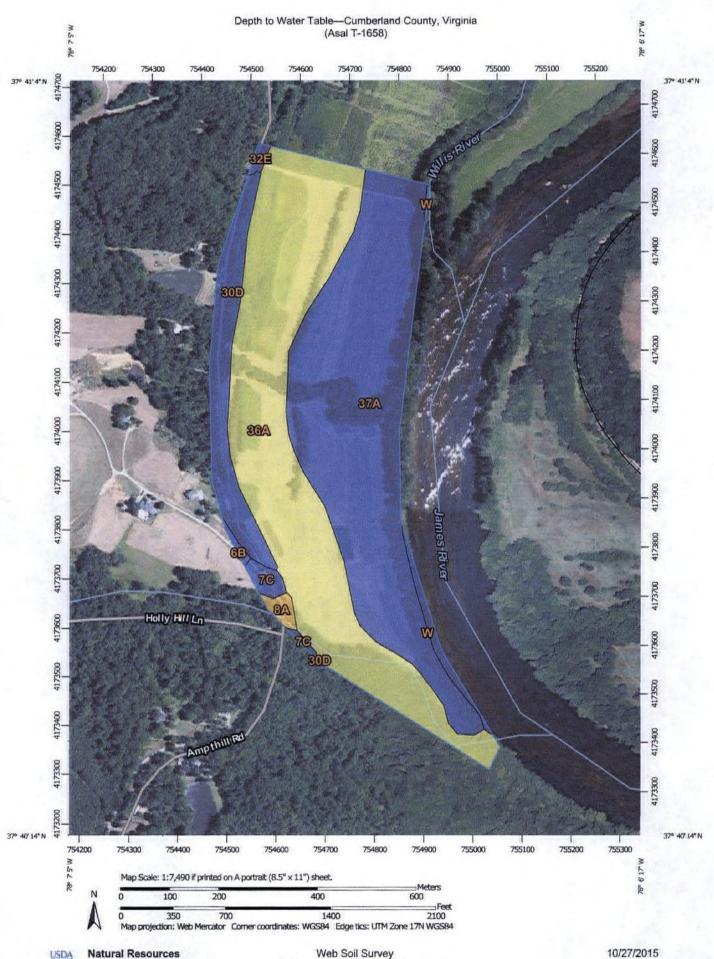
Map unit symbol	Map unit name	Rating (centimeters)	Acres in AOI	Percent of AOI
6B	Cecil sandy loam, 2 to 7 percent slopes	>200	0.3	0.3%
7C	Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded	>200	1.2	1.2%
8A	Chewacla and Monacan soils, 0 to 2 percent slopes, frequently flooded	>200	0.8	0.7%
30D	Pacolet-Wateree complex, 15 to 25 percent slopes	>200	8.8	8.6%
32E	Poindexter-Wedowee complex, 25 to 60 percent slopes	99	0.4	0.4%
36A	Sindion silt loam, 0 to 2 percent slopes, occasionally flooded	>200	44.6	43.7%
37A	Speedwell loam, 0 to 2 percent slopes, occasionally flooded	>200	44.7	43.8%
w	Water	>200	1.3	1.3%
Totals for Area of Interest			102.0	100.0%

Description

A "restrictive layer" is a nearly continuous layer that has one or more physical, chemical, or thermal properties that significantly impede the movement of water and air through the soil or that restrict roots or otherwise provide an unfavorable root environment. Examples are bedrock, cemented layers, dense layers, and frozen layers.

This theme presents the depth to any type of restrictive layer that is described for each map unit. If more than one type of restrictive layer is described for an individual soil type, the depth to the shallowest one is presented. If no restrictive layer is described in a map unit, it is represented by the "> 200" depth class.

This attribute is actually recorded as three separate values in the database. A low value and a high value indicate the range of this attribute for the soil component. A "representative" value indicates the expected value of this attribute for the component. For this soil property, only the representative value is used.



MAP INFORMATION MAP LEGEND The soil surveys that comprise your AOI were mapped at 1:24,000. Area of Interest (AOI) Not rated or not available Area of Interest (AOI) Warning: Soil Map may not be valid at this scale. Streams and Canals Solls Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line Soil Rating Polygons Transportation 0 - 25 Rails placement. The maps do not show the small areas of contrasting 25 - 50 soils that could have been shown at a more detailed scale. Interstate Highways -50 - 100 US Routes Please rely on the bar scale on each map sheet for map 100 - 150 measurements. Major Roads 150 - 200 Source of Map: Natural Resources Conservation Service Local Roads Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov Coordinate System: Web Mercator (EPSG:3857) > 200 1000 Background Aerial Photography Not rated or not available Maps from the Web Soil Survey are based on the Web Mercator Soil Rating Lines projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the 0 - 25 Albers equal-area conic projection, should be used if more accurate 25 - 50 calculations of distance or area are required. 50 - 100 This product is generated from the USDA-NRCS certified data as of the version date(s) listed below. 100 - 150 Soil Survey Area: Cumberland County, Virginia Survey Area Data: Version 11, Dec 11, 2013 150 - 200 > 200 Soil map units are labeled (as space allows) for map scales 1:50,000 .. Not rated or not available Soil Rating Points Date(s) aerial images were photographed: May 10, 2010-Jul 4, 0 - 25 2010 25 - 50 The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background 50 - 100 imagery displayed on these maps. As a result, some minor shifting . 100 - 150 of map unit boundaries may be evident. 150 - 200 > 200

Depth to Water Table

Map unit symbol	Map unit name	Rating (centimeters)	Acres in AOI	Percent of AOI
6B	Cecil sandy loam, 2 to 7 percent slopes	>200	0.3	0.3%
7C	Cecil sandy clay loam, 7 to 15 percent slopes, severely eroded	>200	1.2	1.2%
8A	Chewacla and Monacan soils, 0 to 2 percent slopes, frequently flooded	31	0.8	0.7%
30D	Pacolet-Wateree complex, 15 to 25 percent slopes	>200	8.8	8.6%
32E	Poindexter-Wedowee complex, 25 to 60 percent slopes	>200	0.4	0.4%
36A	Sindion silt loam, 0 to 2 percent slopes, occasionally flooded	69	44.6	43.7%
37A	Speedwell loam, 0 to 2 percent slopes, occasionally flooded	>200	44.7	43.8%
w	Water	>200	1.3	1.3%
Totals for Area of Inter	rest		102.0	100.0%

Description

"Water table" refers to a saturated zone in the soil. It occurs during specified months. Estimates of the upper limit are based mainly on observations of the water table at selected sites and on evidence of a saturated zone, namely grayish colors (redoximorphic features) in the soil. A saturated zone that lasts for less than a month is not considered a water table.

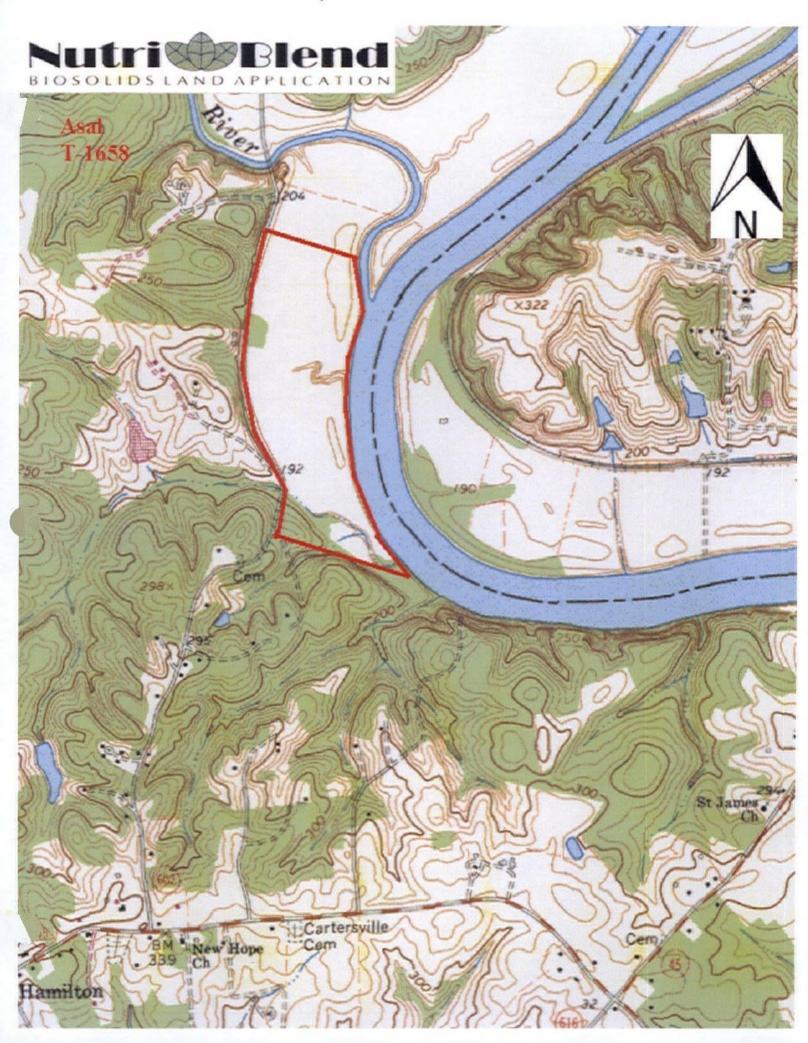
This attribute is actually recorded as three separate values in the database. A low value and a high value indicate the range of this attribute for the soil component. A "representative" value indicates the expected value of this attribute for the component. For this soil property, only the representative value is used.

Rating Options

Units of Measure: centimeters

Aggregation Method: Dominant Component Component Percent Cutoff: None Specified





ASAL FARM Tract 1658 Field Data Sheet

Field	Total	Field Cod	ordinates
	Acres	Latitude	Longitude
1	40.03	37.680693	-78.111646
2	41.42	37.676348	-78.112085
3	9.30	37.673435	-78.111580
	1		

watershed code

JM70/72

Site Type

Agriculture

Tax ID

18-A-3,13-A-14

Agricultural Practice: See Nutrient Management Plan for Yearly crop rotation

USDA Soil info on depth to bedrock&water table when applicable in Nutrient Management P

Owner

JOHNNY ASAL

